

QUARTERLY REPORT MARCH 2026

This quarterly report will focus on the integration of *Analytics in Education with Schools' Digital Administration*. Facing the challenge of reactive teaching and under-optimized resources, school leaders must improve retention, early interventions and administrative efficiency while boosting appeal. Learning analytics, through multi-source data collection (engagement, performance, interactions) and predictive models, personalizes pathways, anticipates dropouts and dynamically optimizes room and staff allocation within a modular, open-source architecture. Solution: deploy a contextual, scalable platform with no vendor lock-in, supported by experts to maximize ROI and institutional competitiveness.

In the era of *big data in education*, digital transformation enables educational organisations to shift from a reactive model to a truly proactive pedagogy. The collection and analysis of educational data now offer a granular view of each learner's journey, from student engagement metrics to their specific needs. For IT and decision-making leaders, these insights translate into tangible gains:

- higher retention,
- early interventions,
- resource optimization,
- improved success rates.

By adopting a contextual, modular, and open-source approach, institutions can not only personalize learning but also strengthen administrative efficiency and establish an attractive position in a rapidly evolving market. Integrating analytics into school digital administration (e.g., SIS, LMS) transforms raw data—grades, attendance, behavior, and engagement—into actionable insights to personalize learning, predict student risks, and optimize resources. This approach enables early, proactive intervention, improves student retention, and supports evidence-based, data-driven decisions for both pedagogical and administrative improvements.

Key Aspects of Integration:

- **Predictive Analytics & Student Support:** By analyzing historical and real-time data, systems identify at-risk students who may be falling behind or at risk of dropping out.
- **Personalized Learning Paths:** Data enables tailored educational experiences, adjusting the pace and content for individual student needs.
- **Operational Optimisation:** Schools can use analytics to optimize resource allocation, enhance administrative efficiency, and improve overall management.
- **Performance Monitoring:** SMS analytics tools ([SMS analytics tools](#)) provide comprehensive views of student progress, tracking grades and behavior to support academic success.

Challenges and Considerations:

- **Data Privacy and Ethics:** The use of personal student data requires strict ethical frameworks and secure, compliant systems.

- **Implementation Barriers:** Slow adoption is often due to limited understanding of benefits, infrastructure limitations, and the need for teacher training.
- **Teacher Support:** The effectiveness of these tools depends on teacher competency and positive beliefs about technology.

Benefits of Data-Driven Decision-Making

- **Enhanced Student Performance:** Immediate access to data allows educators to intervene, providing support like tutoring or counseling to boost outcomes.
- **Curriculum Development:** Data helps align educational programs with industry trends and student needs.
- **Resource Allocation:** Data-driven insights help schools manage resources more efficiently.

Definition

Analytics in education which constitutes of Teaching Analytics and Learning Analytics arouses great attention among researchers and practitioners (R&D) in the current AI climate. The use of analytics in education enables educational data to be collected and analysed to serve the needs of all stakeholders to improve the educational process.

Schools' digital administration, on the other hand, involves using specialized, integrated software platforms (SMS/SIS) to automate, manage, and streamline educational operations. By digitizing tasks like student data management, attendance, fee collection, and scheduling, schools save significant time, money, and labour, while improving communication and data accuracy for teachers, staff, and parents.

Essentially, integrating data analytics with digital school administration transforms educational management by using real-time data from learning management systems to drive personalized learning, optimize operations, and *improve student outcomes*. This approach enables predictive insights into student performance, streamlines administrative tasks, and helps educators tailor instruction.

The cyberspace university model (e.g., www.akademiati.com), which delivers education entirely online, has transitioned from a niche offering to *a necessity in modern higher education* due to rapid advancements in internet technology. This model is gaining significant popularity by enabling students to balance education with work and caregiving obligations.

Here are the key aspects regarding the popularity of this model:

Drivers of Popularity

- **Accessibility and Flexibility:** The model removes geographical barriers, allowing education to be conducted without being constrained by place or time.
- **Lifelong Learning Demand:** Increasing global competition and the need for continuous skill upgrades have driven demand for online education.
- **Technological Integration:** The use of virtual, interconnected, and digital environments allows for active learning through participation, dialogue, and specialized tools like cyber ranges.

- **Cost and Efficiency:** The model is highly efficient, often serving as a necessary component for universities rather than just an optional alternative.

Trends and Observations

- **Rapid Enrollment Growth:** Online education enrollment has grown dramatically, with projections indicating a massive surge in users.
- **Educational Transformation:** The internet is changing how education is delivered, moving away from traditional classroom-only methods toward digital alternatives.
- **Targeted Learning:** The model is particularly popular among diverse student groups, including those seeking flexible, self-paced learning to balance with personal commitments.
- **Rise of Specialized Programs:** There is a notable increase in the popularity of specialized digital education, such as *cybersecurity studies*.

Challenges and Considerations

- **Cybersecurity Risks:** The shift to online learning has increased the risk of cyberattacks, creating a need for improved security measures within university networks.
- **Quality Assurance:** There are ongoing debates about *the efficacy of online education* compared to traditional methods.
- **Need for Digital Literacy:** Effective participation requires students and faculty to have strong digital literacy skills.

Thus, the www.sdmsql40 platform act as a central repository to store and archive data, ensuring it is searchable and reusable. The market for these solutions/platforms is growing rapidly, with projections to exceed USD 4.6 billion by 2034. Likewise, it is essential to show how schools can reduce the amount of paperwork by demonstrating the www.sdmsql40 platform functionalities. Examples of SDMS functionalities include:

- 1) **Admission Management:** Managing student applications, processing admissions, and tracking student progress.
- 2) **Attendance Tracking:** Recording student attendance in classes and generating attendance reports.
- 3) **Grade Management:** Inputting and managing student grades, calculating GPA [The basic GPA formula is: (Sum of (Grade Points * Credit Hours) / (Total Credit Hours)], and generating report cards.
- 4) **Course Scheduling:** Scheduling courses, managing student enrollment, and optimizing class schedules.
- 5) **Fee Management:** Tracking student fees, generating invoices, and managing payment processing.
- 6) **Communication Tools:** Providing communication channels for announcements, notifications, and feedback.
- 7) **Reporting and Analytics:** Generating various reports on student performance, attendance, and other relevant data.

The SDMSQL40 (www.sdmsql40.com) platform support evolves over time. This software delivers a very fast, multithreaded, multi-user, and robust SQL (Structured Query Language) database server. The SDMSQL40 Server is intended for mission-critical, heavy-load production systems as well as for embedding into mass-deployed software. The SDMSQL40 software has a link to the www.akademiat.com cyberspace university platform as an administrative instrument.

The integration of digital technologies in primary and secondary education holds significant potential for enhancing teaching and learning processes, fostering student engagement, collaboration and self-regulated learning.

It's interesting to note that in school and corporate administration, paperwork and files are some of the largest sources of waste and is associated with substantial costs and environmental impact. Finding ways to reduce paper waste can therefore present opportunities for educational and corporate institutions wanting to become more efficient, engage in more sustainable usage of paper and lower costs. In essence, a Student Database Management System is a critical tool for modern educational institutions, helping them manage student information effectively, streamline operations, and improve overall efficiency and communication. Administrators are responsible for managing and overseeing the day-to-day operations of the institution. This includes tasks such as enrolling students and recruiting staff, developing and publicizing new courses, scheduling lectures, and maintaining buildings, among other responsibilities.

Quite a bit of paper waste (work)



According to the Conserve-a-tree, one ream of paper—or 500 sheets—uses 6% of a tree. Schools have the chance to reduce their environmental impact by digitalization.

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